

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A biologically pure culture of an endophyte of the *Neotyphodium coenophialum* species, selected from the group consisting of: AR512; AR513; AR514; AR517; AR521; AR522; AR524; AR525; AR535; AR539; and combinations thereof; AR512; AR513; AR514; AR517; AR521; AR522; AR524; AR525; AR535, AR539 being cultures deposited on 2 October 2002 at the Australian Government Analytical Laboratories (AGAL) with accession numbers: NM02/31935; NM02/31936; NM02/31937; NM02/31938; NM02/31939; NM02/31940; NM02/31941; NM02/31942; NM02/31943; NM02/31944, respectively;

characterised in that when the endophyte is combined with a host grass, the endophyte does not produce alkaloid compounds at levels associated with toxicosis in animals;

and further characterised in that when the endophyte is combined with a host grass, the endophyte produces at least two clavine alkaloids selected from the group consisting of: agroclavine; setoclavine; isosetoclavine; and combinations thereof.

2. (Previously Presented) The endophyte culture as claimed in claim 1 characterised in that the endophyte does not produce alkaloid compounds at levels associated with fescue toxicosis.

3. (Previously Presented) The endophyte culture as claimed in claim 1 characterised in that the endophyte does not produce ergovaline alkaloid at a level associated with toxicosis.
4. (Previously Presented) The endophyte culture as claimed in claim 3 characterised in that the endophyte produces a level of ergovaline that is less than 0.4 ppm in dry matter in herbage consumed by grazing animals.
5. (Previously Presented) The endophyte culture as claimed in claim 3, characterised in that the endophyte produces a level of ergovaline that is less than 0.4 ppm in dry matter in herbage, other than the crown of the host grass, consumed by grazing animals.
6. (Previously Presented) The endophyte culture as claimed in claim 1 characterised in that the endophyte produces sufficient levels of at least two clavine alkaloids to protect the endophyte and the host grass from pests or abiotic stresses or both.
7. (Previously Presented) The endophyte culture as claimed in claim 6 characterised in that the clavine alkaloids protect the endophyte and host grass from abiotic stresses wherein the abiotic stress is a water deficit.
- 8-29. (Cancelled)
30. (Currently Amended) A biologically pure endophyte culture of *Neotyphodium coenophialum* selected from the group consisting of an endophyte culture deposited with the Australian Government Analytical Laboratories under accession number

NM02/31935; NM02/31936; NM02/31937; NM02/31938; NM02/31939; NM02/31940 ;  
NM02/31941; NM02/31942; NM02/31943; and NM02/31944.

31-33. (Canceled)